

# PATENT ABSTRACTS OF JAPAN

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**(54) SPECTRUM RECEIVER DIRECTLY ACQUIRING SHORT BURSTING AND  
EXTENDING DIRECT SEQUENCE**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a method an device free from an erroneous alarm by reliably obtaining an extended spectrum signal from one of plural transmission nodes.

**SOLUTION:** A signal received by an antenna 22 is supplied to an RF/IF converter 30 and mixed with a down conversion signal by a mixer 36 to output an intermediate frequency signal. This signal passes through a band pass filter 40, amplified by a limiting amplifier 44 in a quadrature IF modulator/ demodulator 42, and divided to be inputted to mixers 46 and 48. The divided signals are respectively mixed with a signal from a dual synthesizer 38 and filtered and outputted by filters 50 and 52 as the respective signals of an I constitution element from the one mixer and a Q constitution element phase- shifted by  $90^\circ$  from the other mixer. I and Q signals from a base band processor 80 are amplified within the quadrature IF modulator/demodulator, outputted from a transmission mixer 72, amplified and transmitted from an antenna 20.

